

L17 ANSWER 1 OF 7 USPATFULL on STN

TI System for dispensing pharmaceutical active compounds

AB A system for dispensing a clinically effective dose of an inhalable, pharmaceutically active compound, which system includes a dry powder inhaler device containing a powder containing the pharmaceutically active compound, wherein

(a) of the powder particles dispensed by the inhaler device (the "metered DPI dose"), at least 40% are less than about 10 microns in diameter at the point the particles exit the inhaler,

(b) the metered DPI dose is sufficient to produce a clinically effective result in a patient; and

(c) the amount of the compound in the metered DPI dose is not more than 70% of the minimal amount of the compound which, when dispensed in a pressurized metered dose inhaler, produces an equivalent clinically effective result in the same patient.

ACCESSION NUMBER: 2002:62599 USPATFULL

TITLE: System for dispensing pharmaceutical active compounds

INVENTOR(S): Andersson, Jan, S{overscore (o)}dra Sandby, SWEDEN

Jagfeldt, Hans, Lund, SWEDEN

Trofast, Eva, Lund, SWEDEN

Wetterlin, Kjell, S{overscore (o)}dra Sandby, SWEDEN

PATENT ASSIGNEE(S): AB Astra, Sodertalje, SWEDEN (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6360743	B1	20020326
APPLICATION INFO.:	US 1999-309039		19990510 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1997-866749, filed on 30 May 1997, now patented, Pat. No. US 5934273		
	Continuation of Ser. No. US 1996-654006, filed on 29 May 1996, now patented, Pat. No. US 5642728		
	Continuation of Ser. No. US 1993-165402, filed on 10 Dec 1993, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	SE 1992-3743	19921211
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Weiss, John G.	
ASSISTANT EXAMINER:	Srivastava, V.	
LEGAL REPRESENTATIVE:	Fish & Richardson P.C.	
NUMBER OF CLAIMS:	4	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 2 Drawing Page(s)	
LINE COUNT:	457	

L17 ANSWER 4 OF 7 USPATFULL on STN

TI System for dispensing pharmaceutically active compounds

AB A system for dispensing a clinically effective dose of an inhalable, pharmaceutically active compound, which system includes a dry powder inhaler device containing a powder containing the pharmaceutically active compound, wherein

(a) of the powder particles dispensed by the inhaler device (the "metered DPI dose"), at least 40% are less than about 10 microns in diameter at the point the particles exit the inhaler,

(b) the metered DPI dose is sufficient to produce a clinically effective result in a patient; and

(c) the amount of the compound in the metered DPI dose is not more than 70% of the minimal amount of the compound which, when dispensed in a pressurized metered dose inhaler, produces an equivalent clinically effective result in the same patient.

ACCESSION NUMBER: 2001:96329 USPATFULL  
TITLE: System for dispensing pharmaceutically active compounds  
INVENTOR(S): Andersson, Jan, Sodra Sandby, Sweden  
Jagfaldt, Hans, Lund, Sweden  
Trofast, Eva, Lund, Sweden  
Wetterlin, Kjell, Sodra Sandby, Sweden  
PATENT ASSIGNEE(S): AB Astra, Sodertalje, Sweden (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6250300	B1	20010626
APPLICATION INFO.:	US 1999-418342		19991014 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-309039, filed on 10 May 1999 Continuation of Ser. No. US 1997-866749, filed on 30 May 1997, now patented, Pat. No. US 5934273 Continuation of Ser. No. US 1996-654006, filed on 29 May 1996, now patented, Pat. No. US 5642728 Continuation of Ser. No. US 1993-165402, filed on 10 Dec 1993, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	SE 1992-3743	19921211
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Dawson, Glenn K.	
ASSISTANT EXAMINER:	Srivastava, V.	
LEGAL REPRESENTATIVE:	Fish & Richardson P.C.	
NUMBER OF CLAIMS:	8	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 2 Drawing Page(s)	
LINE COUNT:	464	

L17 ANSWER 5 OF 7 USPATFULL on STN

TI System for dispensing pharmaceutically active compounds  
AB A system for dispensing a clinically effective dose of an inhalable, pharmaceutically active compound, which system includes a dry powder inhaler device containing a powder containing the pharmaceutically active compound, wherein

(a) of the powder particles dispensed by the inhaler device (the "metered DPI dose"), at least 40% are less than about 10 microns in diameter at the point the particles exit the inhaler,

(b) the metered DPI dose is sufficient to produce a clinically effective result in a patient; and

(c) the amount of the compound in the metered DPI dose is not more than 70% of the minimal amount of the compound which, when dispensed in a pressurized metered dose inhaler, produces an equivalent clinically effective result in the same patient.

ACCESSION NUMBER: 1999:91006 USPATFULL  
TITLE: System for dispensing pharmaceutically active compounds

INVENTOR(S): Andersson, Jan, Sodra Sandby, Sweden  
 Jagfeldt, Hans, Lund, Sweden  
 Trofast, Eva, Lund, Sweden  
 Wetterlin, Kjell, Sodra Sandby, Sweden  
 PATENT ASSIGNEE(S): AB Astra, Sodertalje, Sweden (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5934273		19990810
APPLICATION INFO.:	US 1997-866749		19970530 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1996-654006, filed on 29 May 1996, now patented, Pat. No. US 5642728 which is a continuation of Ser. No. US 1993-165402, filed on 10 Dec 1993, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	SE 1992-3743	19921211
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Weiss, John G.	
ASSISTANT EXAMINER:	Srivastava, V.	
LEGAL REPRESENTATIVE:	Fish & Richardson P.C.	
NUMBER OF CLAIMS:	4	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 2 Drawing Page(s)	
LINE COUNT:	454	

L17 ANSWER 7 OF 7 USPATFULL on STN

TI System for dispensing pharmaceutically active compounds  
 AB A method is provided for dispensing a clinically effective dose of an inhalable, pharmaceutically active compound. The method includes providing a dry powder inhaler containing a powder including the pharmaceutically active compound, and administering to a patient a dose of the compound that is less than 70% of the dose that would be necessary to obtain a physiologically equivalent result were the compound administered by a pressurized metered dose inhaler. The pharmaceutically active compound is in the form of primary particles at least 80% of which have a particle size of less than 10 microns, and the primary particles are provided as agglomerates which are deagglomerated during inhalation so that at least 40% of the dose administered is in the form of primary particles.

ACCESSION NUMBER: 97:55502 USPATFULL  
 TITLE: System for dispensing pharmaceutically active compounds  
 INVENTOR(S): Andersson, Jan, Sodra Sandby, Sweden  
 Jagfeldt, Hans, Lund, Sweden  
 Trofast, Eva, Lund, Sweden  
 Wetterlin, Kjell, Sodra Sandby, Sweden  
 PATENT ASSIGNEE(S): AB Astra, Sodertalje, Sweden (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5642728		19970701
APPLICATION INFO.:	US 1996-654006		19960529 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1993-165402, filed on 10 Dec 1993, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	SE 1992-3743	19921211
DOCUMENT TYPE:	Utility	

FILE SEGMENT: Granted  
PRIMARY EXAMINER: Millin, Vincent  
ASSISTANT EXAMINER: Raciti, Eric P.  
LEGAL REPRESENTATIVE: Fish & Richardson P.C.  
NUMBER OF CLAIMS: 4  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 4 Drawing Figure(s); 2 Drawing Page(s)  
LINE COUNT: 448

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(FILE 'HOME' ENTERED AT 20:59:04 ON 17 FEB 2008)

FILE 'USPATFULL, CAPLUS, MEDLINE' ENTERED AT 20:59:26 ON 17 FEB 2008

L1 145643 S (ADRENALINE OR EPINEPHRINE OR EPIFRIN OR EPITRATE OR LYOPHRIN  
L2 4977 S L1 (S) (DPI OR (DRY(W)POWDER(W)INHALER) OR INHALA? OR RESPIRA  
L3 74 S L2 (S) ((DRY(W)POWDER) OR PARTICULATE OR PARTICLE)  
L4 8 S L3 (S) (TARTRATE OR BITARTRATE)  
L5 7 DUP REM L4 (1 DUPLICATE REMOVED)  
L6 3 S L5 NOT PD>20020628  
L7 9 S L3 AND (TARTRATE OR BITARTRATE)  
L8 8 DUP REM L7 (1 DUPLICATE REMOVED)  
L9 4 S L8 NOT PD>20020628  
L10 1 S L9 NOT L6  
L11 486 S L2 AND ((DRY(W)POWDER) OR PARTICULATE OR PARTICLE)  
L12 268 S L11 AND (ADRENALINE OR EPINEPHRINE (P) (TARTRATE OR BITATRATE  
L13 48 S L12 AND LEUCINE  
L14 47 DUP REM L13 (1 DUPLICATE REMOVED)  
L15 7 S L14 NOT PD>20020628  
L16 7 S L15 NOT L9  
L17 7 S L16 NOT L6

=> d que L1

L1 145643 SEA (ADRENALINE OR EPINEPHRINE OR EPIFRIN OR EPITRATE OR  
LYOPHRIN OR MICRONEFRIN OR MICRONEPHRINE OR VAPONEFRIN OR  
(51-43-4/RN))

=> d que L2

L1 145643 SEA (ADRENALINE OR EPINEPHRINE OR EPIFRIN OR EPITRATE OR  
LYOPHRIN OR MICRONEFRIN OR MICRONEPHRINE OR VAPONEFRIN OR  
(51-43-4/RN))  
L2 4977 SEA L1 (S) (DPI OR (DRY(W) POWDER(W) INHALER) OR INHALA? OR  
RESPIRA?)

=> d que L12

L1 145643 SEA (ADRENALINE OR EPINEPHRINE OR EPIFRIN OR EPITRATE OR  
LYOPHRIN OR MICRONEFRIN OR MICRONEPHRINE OR VAPONEFRIN OR  
(51-43-4/RN))  
L2 4977 SEA L1 (S) (DPI OR (DRY(W) POWDER(W) INHALER) OR INHALA? OR  
RESPIRA?)  
L11 486 SEA L2 AND ((DRY(W) POWDER) OR PARTICULATE OR PARTICLE)  
L12 268 SEA L11 AND (ADRENALINE OR EPINEPHRINE (P) (TARTRATE OR  
BITATRATE))